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**Product Data Sheet**

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Product Name: IL 11 Human, Pichia

Cat. No.: GP20547

Batch No.: 1

**Product Data**

Purity	>98%	Source	Pichia Pastoris.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Interleukin-11; IL-11; Adipogenesis inhibitory factor; AGIF; Oprelvekin; IL11.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Gly-Pro-Pro-Pro-Gly.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin -11 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IL11 was lyophilized after extensive dialysis against 20mM PB, pH7.0 and 2% Glycine buffer.		

**Introduction**

IL11 is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). IL-11 is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells.

**Biological Activity**

The ED50 as determined by the dose-dependent stimulation of the proliferation of murine 7TD1 was found to be less than 0.2ng/ml, corresponding to a Specific Activity of 8,000,000 IU/ mg.

**Stability**

Lyophilized IL11 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution IL11 should be stored at 4°C between 2-7

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

IL11 Human Recombinant produced in Pichia Pastoris is a single, non-glycosylated, Polypeptide chain containing 177 amino acids (it differs from the 178 amino acid length of the native IL11 only in lack of the N-terminal proline residue) and having a molecular mass of 19kDa. The IL11 is purified by proprietary chromatographic techniques.

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